



Questar Gas Company

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Barrie L. McKay

Vice President Regulatory Affairs

UTAH PUBLIC
SERVICE COMMISSION

2016 MAR 22 P 3:26

RECEIVED

March 22, 2016
Chris Parker
Utah Department of Commerce
Division of Public Utilities
SM Box 146751
Salt Lake City, UT 84114-6751

Docket No. 14-057-25

Dear Chris:

Attached please find a copy of the Energy Efficiency Report for the year ended December 31, 2015. This report was designed and prepared based on recommendations from the DPU and Questar Gas for the purpose of providing timely information on Questar Gas' energy-efficiency programs and to assist the Division in monitoring and reporting the status of these programs. The report provides fourth quarter and year-to-date information on participants, costs, and natural gas savings for the Company's energy-efficiency programs.

Spending for the 2015 program year totaled \$24.2 million or 85% of the \$28.5 million Commission approved ThermWise® budget. Actual expenditures in the Appliance, Business Custom, Weatherization, and Low Income Efficiency programs were lower than budgeted due to lower than expected participation. The Market Transformation expenditures were also lower than expected (70% of budget) in 2015. This was primarily due to lower than projected marketing expenses and the Company's ongoing efforts to secure event and promotional contracts at low rates. The Builder program had expenditures of \$4.69 million which totaled 137% of the 2015 budget. The Business program had expenditures of \$3.70 million or 137% of the 2015 budget. In total, rebate dollars accounted for nearly 76% of total ThermWise® spending in 2015 (75% in 2015 budget) and resulted in annual natural gas savings* of 761,849 decatherms.

If you have any questions, or if we can provide additional information, please contact me.

Sincerely,

Barrie L. McKay

cc: Doug Wheelwright, DPU
Public Service Commission
Office of Consumer Services

*Reflects an approximate 20% reduction in annual Dth savings for freeridership

Questar Gas Company
Energy Efficiency Report - Utah Programs
As of December 31, 2015

Line #	Program	4th Quarter 2015			Total 2015						
		Actual		Costs	Actual Participants	Estimated Participants	Dth Savings*	Actual Costs	Budget		
		Participants	Participants								
1	ThermWise Appliance Rebates	6,571	\$	1,560,625	21,591	22,100	182,549	\$	5,272,892	\$	5,885,450
2	ThermWise Builder Rebates	5,894		1,558,613	16,799	10,224	111,713		4,693,680		3,432,652
3	ThermWise Business Rebates	576		1,184,330	2,980	2,097	148,255		3,698,691		2,693,523
4	ThermWise Home Energy Plan	563		217,496	2,658	3,163	30,147		672,226		900,694
5	ThermWise Weatherization Rebates	6,500		1,624,390	35,525	49,115	157,349		7,636,074		12,115,703
6	ThermWise Business Custom Rebates	-		63,903	9	20	1,279		252,943		559,760
7	Market Transformation	N/A		61,214	N/A	N/A	N/A		1,009,863		1,453,000
8	ThermWise Energy Comparison Report	57,500		192,637	230,000	230,000	120,900		277,967		400,000
9	Low Income Efficiency Program	347		32,499	993	1,846	9,656		673,123		1,087,326
10	Programs Total **	20,451		6,495,708	80,555	88,565	761,849		24,187,461		28,528,107
11	DSM Interest	N/A		21,200	N/A	N/A	N/A		(66,149)		N/A
12	DSM Amortization	N/A		(8,597,125)	N/A	N/A	N/A		(23,365,638)		N/A
13	DSM General Administration	-		-	N/A	N/A	N/A		-		N/A
14	2015 TOTAL	20,451	\$	(2,080,217)	80,555	88,565	761,849	\$	755,674	\$	28,528,107

*Savings reflects the net Dth deemed savings based on actual participants with an 80% net-to-gross ratio applied.

** Total participation reflects rebates and energy plan participants. Energy Comparison Report participants are shown only for the purpose of calculating cost effectiveness.

Questar Gas Company
ThermWise Appliance Rebate Program - Utah Programs
As of December 31, 2015

Line#	Program	4th Quarter 2015		Total 2015				
		Actual		Actual Participants	Estimated Participants	Dth Savings*	Actual Costs	Budget
		Participants	Costs					
1	92% Efficient Furnace	12	\$ 2,400	61	20	810	\$ 12,200	4,000
2	95% Efficient Furnace	772	270,200	2,833	3,370	48,461	991,550	1,179,500
3	95% Efficient Furnace with ECM	1,264	505,600	4,225	4,647	69,290	1,690,000	1,858,800
4	98% Efficient Furnace with ECM	174	78,300	435	440	7,586	195,750	198,000
5	2.6 MEF Washer	1,308	65,400	5,262	6,973	7,325	263,100	348,650
6	Gas Water Heater - Tier 1	502	25,100	1,706	1,685	2,334	85,300	84,250
7	Gas Water Heater - Tier 2	152	15,200	694	600	2,199	69,400	60,000
8	Condensing Gas Water Heater	8	2,800	46	42	339	16,100	14,700
9	Hybrid Gas Water Heater	-	-	6	15	49	2,100	5,250
10	Boilers Tier 1	2	800	25	70	374	10,000	28,000
11	Boilers Tier 2	19	11,400	74	90	1,492	44,400	54,000
12	Solar Assisted Water Heater (domestic)	-	-	1	201	14	750	150,750
13	Solar Assisted Water Heater (pool)	4	3,000	11	50	606	8,250	37,500
14	Tankless Gas Water Heater (tier 1)	15	4,500	54	100	380	16,200	30,000
15	Tankless Gas Water Heater (tier 2)	114	39,900	531	550	4,078	185,850	192,500
16	Direct Vent Gas Fireplace	101	20,200	300	315	2,592	60,000	63,000
17	Smart Thermostat (appliance)	2,066	206,600	5,091	2,465	35,026	509,100	246,500
18	92% Efficient Furnace	-	-	-	35	-	-	7,000
19	95% Efficient Furnace	27	9,450	101	92	913	35,350	32,200
20	95% Efficient Furnace with ECM	2	800	25	6	226	10,000	2,400
21	98% Efficient Furnace with ECM	-	-	-	5	-	-	2,250
22	2.6 MEF Washer	4	200	15	15	21	750	750
23	Gas Water Heater - Tier 1	6	300	29	15	40	1,450	750
24	Gas Water Heater - Tier 2	-	-	-	90	-	-	9,000
25	Solar Assisted Water Heater (domestic)	-	-	-	5	-	-	3,750
26	Solar Assisted Water Heater (pool)	-	-	1	5	55	750	3,750
27	Condensing Gas Water Heater	-	-	-	5	-	-	1,750
28	Hybrid Gas Water Heater	-	-	-	5	-	-	1,750
29	Boilers Tier 1	-	-	-	5	-	-	2,000
30	Boilers Tier 2	-	-	-	5	-	-	3,000
31	Direct Vent Gas Fireplace	-	-	-	5	-	-	1,000
32	Smart Thermostat (existing multifamily)	18	1,800	31	164	99	3,100	16,400
33	Tankless Gas Water Heater (tier 1)	1	300	32	5	225	9,600	1,500
34	Tankless Gas Water Heater (tier 2)	-	-	2	5	15	700	1,750
35	Administrative & Overheads	N/A	296,375	N/A	N/A	N/A	1,051,142	1,239,050
36	Total	6,571	\$ 1,560,625	21,591	22,100	182,549	\$ 5,272,892	\$ 5,885,450

*Savings reflects the net Dth deemed savings based on actual participants with an 80% net-to-gross ratio applied.

Questar Gas Company
ThermWise Builder Rebates Program - Utah Programs
As of December 31, 2015

Line #	Program	4th Quarter 2015			Total 2015				
		Actual		Costs	Actual Participants	Estimated Participants	Dth Savings*	Actual Costs	Budget
		Participants							
1	Energy Star 3.0	74	\$ 22,200		364	305	\$ 8,911	\$ 109,200	\$ 91,500
2	High Performance Homes	3	1,500		20	86	691	10,000	43,000
3	ThermWise Builder Option Package 1 (Builder Cert)	-	-		8	-	109	400	-
4	ThermWise Builder Option Package 2 (Rater Cert)	6	600		57	-	976	5,700	-
5	92% Efficient Furnace	40	8,000		198	519	1,502	39,600	103,800
6	95% Efficient Furnace	1,234	431,900		3,653	3,120	32,731	1,278,550	1,092,000
7	95% Efficient Furnace with ECM	297	118,800		861	736	7,715	344,400	294,400
8	98% Efficient Furnace with ECM	4	1,800		9	5	89	4,050	2,250
9	Tier 1 Storage Water Heater	531	26,550		1,419	1,764	1,941	70,950	88,200
10	.67 EF Storage Water Heater	88	8,800		379	300	1,201	37,900	30,000
11	Tankless Water Heater	2	600		13	5	114	3,900	1,500
12	Tankless Water Heater Tier 2	14	4,900		55	200	528	19,250	70,000
13	Condensing Gas Water Heater	1	350		6	5	44	2,100	1,750
14	Hybrid Gas Water Heater	-	-		-	10	-	-	3,500
15	Gas Boiler Rebates Paid - Tier 1	1	400		6	10	58	2,400	4,000
16	Gas Boiler Rebates Paid - Tier 2	6	3,600		22	15	284	13,200	9,000
17	Solar Assisted Water Heater - domestic	-	-		-	5	-	-	3,750
18	Solar Assisted Water Heater - pool	-	-		-	5	-	-	3,750
19	2x6 Walls	248	86,800		1,427	1,340	14,612	499,450	469,000
20	R-5 Window	-	-		49	20	16.88	1,819	10,000
21	Smart Thermostat (builder)	19	1,900		33	162	114	3,300	16,200
22	HERS-10% better than code (builder)	212	42,400		360	270	3,830	72,000	54,000
23	Energy Star 3.0 - MF	226	45,200		595	72	6,997	119,000	14,400
24	High Performance Homes - MF	-	-		-	14	-	-	4,200
25	ThermWise Builder Option Package 1 - MF	-	-		49	-	255	2,450	-
26	ThermWise Builder Option Package 2 - MF	-	-		407	-	2,702	40,700	-
27	92% Efficient Furnace - MF	138	27,600		213	283	954	42,600	56,600
28	95% Efficient Furnace - MF	841	294,350		2,520	241	13,104	882,000	84,350
29	95% Efficient Furnace with ECM - MF	12	4,800		19	38	99	7,600	15,200
30	98% Efficient Furnace with ECM - MF	-	-		-	5	-	-	2,250
31	Tier 1 Storage Water Heater - MF	527	26,350		1,171	35	1,602	58,550	1,750
32	.67 EF Storage Water Heater - MF	166	16,600		651	100	2,062	65,100	10,000
33	Tankless Water Heater - MF	-	-		-	5	-	-	1,500
34	Tankless Water Heater Tier 2 - MF	-	-		7	75	67	2,450	26,250
35	Condensing Gas Water Heater - MF	11	3,850		11	5	81	3,850	1,750
36	Hybrid Gas Water Heater - MF	-	-		-	5	-	-	1,750
37	Boilers Tier 1 - MF	-	-		-	5	-	-	2,000
38	Boilers Tier 2 - MF	-	-		-	5	-	-	3,000
39	Solar Assisted Water Heater - domestic MF	-	-		-	5	-	-	3,750
40	Solar Assisted Water Heater - pool MF	-	-		-	5	-	-	3,750
41	2x6 Walls - MF	973	145,950		1,838	396	5,882	275,700	59,400
42	R-5 Window	-	-		-	5	-	-	2,500
43	Smart Thermostat (new multifamily)	-	-		-	18	-	-	1,800
44	HERS-10% better than code (new multifamily)	220	22,000		379	25	2,441	37,900	2,500
45	Administrative & Overheads	N/A	210,813		N/A	N/A	N/A	637,612	742,352
46	Total	5,894	\$ 1,558,613		16,799	10,224	111,713	\$ 4,693,680	\$ 3,432,652

*Savings reflects the net Dth (seamed) savings based on actual participants with an 80% net-to-gross ratio applied.

Questar Gas Company
ThermWise Business Rebates Program - Utah Programs
As of December 31, 2015

Line #	Program	4th Quarter 2015		Total 2015				
		Participants	Actual Costs	Actual Participants	Estimated Participants	Dth Savings*	Actual Costs	Budget
1	92% Efficient Furnace	3	\$ 600	4	185	52	\$ 800	\$ 37,000
2	95% Efficient Furnace	62	21,700	192	525	2,780	67,200	183,750
3	95% Efficient Furnace with ECM	36	14,400	221	33	3,200	88,400	13,200
4	98% Efficient Furnace with ECM	-	-	1	1	17	450	450
5	Gas Storage Water Heater - Tier 1 <75kBtu	-	-	65	287	64	3,250	14,350
6	Gas Storage Water Heater - Tier 2 <75kBtu .67	-	-	-	1	-	-	100
7	Gas Storage Water Heater >75kBtu	4	1,599	24	25	1,112	15,881	11,376
8	High Efficiency Gas Water Heater - Tankless <200kBtu	4	1,592	166	5	4,287	60,782	2,004
9	High Efficiency Gas Water Heater - Tankless >200kBtu	-	-	9	5	651	9,235	3,522
10	Condensing Gas Water Heater	3	1,050	3	3	22	1,050	1,050
11	Hybrid Gas Water Heater	-	-	-	1	-	-	350
12	Combined Space / Water Heater (business)	-	-	-	50	-	-	22,500
13	2.6 MCF Washer	-	-	1	5	1	50	250
14	Commercial Clothes Washer	-	-	-	1	-	-	75
15	Boiler Reset Control	1	250	2	1	119	500	250
16	Boiler Tune-up Tier 1	60	11,864	122	20	956	19,136	2,000
17	Boiler Tune-up Tier 2	35	10,300	224	100	8,756	66,134	30,000
18	Boiler Tune-up Tier 3	51	25,202	354	10	74,165	258,845	4,400
19	Low Flow Pre-rinse Spray Valve	10	250	10	1	269	250	25
20	Smart Thermostat (business)	6	600	28	50	224.00	2,800	5,000
21	Direct Contact Water Heater	-	-	-	1	-	-	298
22	High Efficiency Boiler Hot Water Tier 1	1	598	6	1	1,079	15,018	4,140
23	High Efficiency Boiler Hot Water Tier 2	3	3,890	36	75	20,041	239,959	404,261
24	Boiler Hot Water ≥ 2,500,000 Btu/h (business)	8	34,704	8	10	2,324	34,704	97,500
25	High Efficiency Boiler Steam Tier 1	-	-	-	1	-	-	4,140
26	Boiler Steam (Except Natural Draft) ≥ 300,000 Btu/h (business)	1	3,402	1	1	150	3,402	10,806
27	Boiler Steam (Natural Draft) ≥ 300,000 Btu/h (business)	-	-	-	1	-	-	10,806
28	High Efficiency Boiler Steam Tier 2	-	-	-	1	-	-	1,500
29	Gas Unit Heater Non-Condensing	-	-	1	-	45	500	1,000
30	Gas Unit Heater Condensing	-	-	3	13	111	4,919	19,698
31	Infrared Heating System	17	12,375	148	240	6,344	82,375	176,220
32	Modulating Infrared Heaters (NC or Replacing Non-IR) (business)	-	-	-	25	-	-	27,533
33	Modulating Infrared Heaters (Replacing Non-IR) (business)	-	-	-	5	-	-	1,468
34	Condensing RTU's (business)	-	-	-	1	-	-	1,875
35	High Efficiency Gas Combo Oven	-	-	3	5	97	3,000	5,000
36	Energy Star Gas Commercial Fryer	7	3,500	52	30	840	26,000	15,000
37	High Efficiency Gas Convection Oven	1	500	13	18	168	6,500	9,000
38	High Efficiency Gas Griddle	-	-	11	3	77	3,300	900
39	Energy Star Gas Steam Cooker	-	-	-	1	-	-	1,000
40	Windows - pre fab (new construction)	-	-	521	-	221	3,714	-
41	Windows - pre fab (retrofit)	-	-	-	68	-	-	374
42	Windows - site built (retrofit)	-	-	234	1	134	2,313	5
43	Attic Insulation (new construction)	2	7,941	4	12	290	11,135	24,809
44	Attic Insulation (retrofit)	259	631,270	503	250	19,542	1,260,751	607,720
45	Wall Insulation (new construction)	2	1,788	6	7	50	3,083	9,775
46	Wall Insulation (retrofit)	-	-	3	15	50	2,058	13,543
47	Administrative & Overheads	N/A	394,954	N/A	N/A	N/A	1,399,697	915,000
48	Total	576	\$ 1,184,330	2,980	2,097	148,255	\$ 3,698,691	\$ 2,693,523

*Savings reflects the net Dth deemed savings based on actual participants with an 80% net-to-gross ratio applied.

Questar Gas Company
 ThermWise Home Energy Plan - Utah Programs
 As of December 31, 2015

Line #	Program	4th Quarter 2015				Total 2015			
		Actual		Plans / Participants**	Efficiency Items**	Estimated Participants	Dth Savings*	Actual Costs	Budget
		Participants**	Costs						
1	THERMWISE HOME ENERGY PLAN								
2	Efficiency Measures	563	\$ 9,154	2,647	13,525	3,163	30,124	\$ 30,641	\$ 65,369
3	Programmable Thermostat - Residential	-	-	11	N/A	-	23	330	-
4	Administrative & Overheads	N/A	208,342	N/A	N/A	N/A	N/A	641,255	835,325
5	Total	563	\$ 217,496	2,658	13,525	3,163	30,147	\$ 672,226	\$ 900,694

*Savings reflects the net Dth deemed savings based on actual participants with an 80% net-to-gross ratio applied.

**Participants, Plans Completed and Efficiency Items are based on reported numbers from the ThermWise Home Energy Experts.

Questar Gas Company
ThermWise Weatherization Rebates Program - Utah Programs
As of December 31, 2015

Line #	Program	4th Quarter 2015		Total 2015					
		Actual		Actual Participants	Estimated Participants	Dth Savings*	Actual Costs	Budget	
		Participants	Costs						
1	Attic Insulation Tier 1 - .25 per sq. ft	1,680	\$ 586,701	8,564	18,850	50,086	\$ 2,953,193	\$ 6,112,113	
2	Attic Insulation Tier 2	700	64,762	3,273	10,980	4,539	305,542	1,037,610	
3	Floor Insulation	42	8,398	197	321	896	32,942	51,249	
4	Wall Insulation	173	51,399	747	905	3,024	213,962	233,296	
5	Windows	28	367	6,722	-	3,093	89,151	-	
6	R-5 Windows	1,229	44,095	3,348	471	2,720	121,762	18,041	
7	Duct Sealing & Insulation	1,298	425,165	5,510	312	59,420	1,712,653	130,800	
8	Air Sealing	123	53,453	328	1,671	2,228	139,257	880,192	
9	Attic Insulation Tier 1 (multifamily) - .25 per sq. ft	501	90,778	2,873	5,468	10,606	625,376	1,352,449	
10	Attic Insulation (multifamily) Tier 2	377	17,800	827	3,929	684	46,021	285,514	
11	Floor Insulation (multifamily)	-	-	-	23	-	-	418	
12	Wall Insulation (multifamily)	-	-	1	3	6	441	306	
13	Windows (multifamily)	-	-	6	-	21	603	-	
14	Duct Sealing & Insulation (multifamily)	349	70,868	3,129	6,182	20,026	643,241	1,074,911	
15	Administrative & Overheads	N/A	210,606	N/A	N/A	N/A	751,931	958,805	
16	Total	6,500	\$ 1,624,390	35,525	49,115	157,349	\$ 7,636,074	\$ 12,115,703	

*Savings reflects the net Dth deemed savings based on actual participants with an 80% net-to-gross ratio applied.

Questar Gas Company
ThermWise Business Custom Rebates Program - Utah Programs
As of December 31, 2015

Line #	Program	4th Quarter 2015		Total 2015				Budget
		Actual Participants	Actual Costs	Actual Participants	Estimated Participants	Dth Savings*	Actual Costs	
1	Business Custom Rebates	-	\$ -	9	20	1,279	\$ 12,807	\$ 100,000
2	Administrative & Overheads	N/A	63,903	-	N/A	N/A	240,136	459,760
3	Total	-	\$ 63,903	9	20	1,279	\$ 252,943	\$ 559,760

*Savings reflects the net Dth deemed savings based on actual participants with an 80% net-to-gross ratio applied.

Questar Gas Company
Market Transformation - Utah Programs
As of December 31, 2015

Line #	Program	4th Quarter 2015		Total 2015			
		Participants	Costs	Actual Participants	Estimated Participants	Actual Costs	Budget
1	Market Transformation Total	N/A	\$ 61,214	N/A	N/A	\$ 1,009,863	\$ 1,453,000

Questar Gas Company
Energy Comparison Report - Utah Programs
As of December 31, 2015

Line #	Program	4th Quarter 2015		Total 2015				Budget
		Participants	Costs	Actual Participants	Estimated Participants	Dth Savings	Actual Costs	
1	Energy Comparison Report Total	57,500	\$ 192,637	230,000	230,000	120,900	\$ 277,967	\$ 400,000

Questar Gas Company
 Low Income Efficiency Program - Utah Programs
 As of December 31, 2015

Line #	Program	4th Quarter 2015		Total 2015				
		Participants	Costs	Actual Participants	Estimated Participants	Dth Savings*	Actual Costs	Budget
1	95% Efficient Furnace	8	\$ 2,800	86	170	1,763	\$ 30,100	\$ 59,500
2	95% Efficient Furnace with ECM	3	1,200	12	35	246	4,800	14,000
3	98% Efficient Furnace with ECM	-	-	1	12	22	450	4,800
4	Gas Water Heater - Tier 1	-	-	2	20	3	100	1,000
5	Gas Water Heater - Tier 2	-	-	10	38	40	1,000	3,800
6	Boiler- Tier 1	-	-	1	-	19	400	-
7	Attic Insulation - Tier 1	31	5,919	145	250	579	27,306	254,450
8	Attic Insulation Tier 2	11	203	46	180	12	668	17,547
9	Floor Insulation	6	943	40	85	184	5,415	18,105
10	Wall Insulation	8	2,347	48	96	176	9,978	28,336
11	Windows	-	-	108	-	54	1,251	-
12	Programmable Thermostat	-	-	25	-	67	750	-
13	Duct Sealing & Insulation	3	1,315	15	90	202	6,118	39,330
14	Air Sealing	49	16,724	226	360	1,615	80,737	104,207
15	Tank Less Gas Water Heater - Tier 1 (low inc	-	-	-	5	-	-	1,500
16	Tank Less Gas Water Heater - Tier 2 (low inc	-	-	-	5	-	-	1,750
17	Low Income Furnace Replacement	228	-	228	500	4,674	500,000	500,000
18	Administrative & Overheads	N/A	1,047	N/A	N/A	N/A	4,049	39,000
19	Total	347	\$ 32,499	993	1,846	9,656	\$ 673,123	\$ 1,087,326

*Savings reflects the net Dth deemed savings based on actual participants with an 80% net-to-gross ratio applied.